



SHEET 1 OF 2

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 5107-3-CIP	SERIAL NO. 10/649,286
	APPLICANT DONNELLY et al.	
	FILING DATE August 26, 2003	GROUP ART 2837

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
Ro	1.	D464,622 S	10/22/02	Donnelly	D13	120	
	2.	5,281,900	01/25/94	Park	318	139	
	3.	5,511,749	04/30/96	Horst et al.	246	187 A	
	4.	5,568,023	10/22/96	Grayer et al.	318	139	
	5.	5,685,507	11/11/97	Horst et al.	246	187 A	
	6.	6,441,581 B1	08/27/02	King et al.	320	101	
	7.	6,449,536 B1	09/10/02	Brousseau et al.	701	19	
	8.	6,456,674 B1	09/24/02	Horst et al.	375	347	
	9.	6,470,245 B1	10/22/02	Proulx	701	19	
	10.	6,615,118 B2	09/02/03	Kumar	701	19	
	11.	6,658,331 B2	12/02/03	Horst et al.	701	19	
	12.	6,691,005 B2	02/10/04	Proulx	701	19	
	13.	6,697,716 B2	02/24/04	Horst	701	19	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
Ro	14.	CA 1,283,472	10/15/87	Canada	B60L	11/02	X	
Ro	15.	CA 2,411,132	11/05/02	Canada			X	

EXAMINER Bentz Ro	DATE CONSIDERED 12/1/2004
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Filed  
May 6, 2004.

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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

Ro	16.	Kostic et al., "An Analytic Solution of the Choppers Ripple Currents," Proceedings of the 1993 IEEE/ASME Joint Railroad Conference, April 1993, pp. 103-107.

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	1	384,580	06/12/1988	E. Julien			
	2	1,199,752	10/03/1916	C.W. Baker			
	3	1,377,087	05/03/1921	J.A. Manns			
	4	1,535,175	04/28/1925	R. Mancha			
	5	2,403,933	04/16/1946	T.O. Lillquist			
	6	2,472,924	06/14/1949	A.F. Schwendner			
	7	2,510,753	06/06/1950	R.H. Multhaup			
	8	3,169,733	02/16/1965	A.M. Barrett, Jr.			
	9	3,443,115	05/06/1969	J.W. Timmerman, Jr.			
	10	3,569,810	03/09/1971	Tom M. Thiele	318	341	
	11	3,668,418	06/06/1972	Godard	307	66	
	12	3,792,327	02/12/1974	Waldorf	318	139	
	13	3,898,937	08/12/1975	Johnson	105	61	
	14	3,970,160	07/20/1976	Nowick	180	65	
	15	4,090,577	05/23/1978	Moore	180	44	
	16	4,199,037	04/22/1980	White	180	65	
	17	4,204,143	05/20/1980	Coleman	318	341	
	18	4,217,527	08/12/1980	Bourke et al.	318	139	
	19	4,309,645	01/05/1982	De Villeneuve	318	341	
	20	4,471,276	09/11/1984	Cudlitz	318	341	
	21	4,495,449	01/22/1985	Black et al.	318	60	
	22	4,523,134	06/11/1985	Kinoshita et al.	318	313	
	23	4,900,944	02/13/1990	Donnelly	290	3	

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\* Duplicate references.

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	24	4,961,151	10/02/1990	Early et al.	364	492	
	25	5,129,328	07/14/1992	Donnelly	105	61.5	
	26	5,212,431	05/18/1993	Origuchi et al.	318	139	
	27	5,264,764	11/23/1993	Kuang	318	139	
	28	5,317,669	05/31/1994	Anderson et al.	388	829	
	29	5,453,672	09/26/1995	Avitan	318	493	
	30	5,317,669	05/31/1994	Anderson et al.	388	829	
	31	5,332,630	07/26/1994	Hsu	429	20	
	32	5,359,228	10/25/1994	Yoshida	290	17	
	33	5,436,548	07/25/1995	Thomas	320	2	
	34	5,453,672	09/26/1995	Avitan	318	493	
	35	5,510,693	04/23/1996	Theobald	320	24	
	36	5,528,148	06/18/1996	Rogers	324	426	
	37	5,585,706	12/17/1996	Avitan	318	493	
	38	5,610,499	03/11/1997	Rogers	322	25	
	39	5,629,567	05/13/1997	Kumar	290	3	
	40	5,629,601	05/13/1997	Feldstein	320	6	
	41	5,631,532	05/20/1997	Azuma et al.	320	5	
	42	5,696,438	12/09/1997	Hamilton	322	12	
	43	5,698,955	12/16/1997	Nii	318	139	
	44	5,751,137	05/12/1998	Kiuchi et al.	322	14	
	45	5,765,656	06/16/1998	Weaver	180	65.3	
	46	5,820,172	10/13/1998	Brigham et al.	290	40	
	47	5,898,282	04/27/1999	Drozdz et al.	318	139	
	48	5,992,950	11/30/1999	Kumar et al.	303	151	
	49	5,939,861	08/17/1999	Joko et al.	320	122	
	50	5,964,309	10/12/1999	Kimura et al.	180	65.8	

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\* Duplicate References

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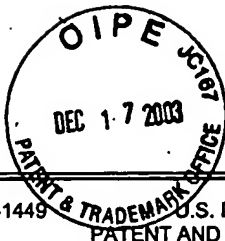
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	8	3,169,733	02/16/1965	A.M. Barrett, Jr.			
	9	3,443,115	05/06/1969	J.W. Timmerman, Jr.			
	10	3,569,810	03/09/1971	Tom N. Thiele	318	341	
	11	3,596,154	7/27/1971	Gurwicz et al.	318	252	
	12	3,668,418	06/06/1972	Godard	307	66	
	13	3,792,327	02/12/1974	Waldorf	318	139	
	14	3,898,937	08/12/1975	Johnson	105	61	
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	18	4,204,143	05/20/1980	Coleman	318	341	
	19	4,217,527	08/12/1980	Bourke et al.	318	139	
	20	4,309,645	01/05/1982	De Villeneuve	318	341	
	21	4,369,397	1/18/1983	Read	318	54	
	22	4,423,362	12/27/1983	Konrad et al.	318	139	
	23	4,471,276	09/11/1984	Cudlitz	318	341	
	24	4,495,449	01/22/1985	Black et al.	318	60	
	25	4,523,134	06/11/1985	Kinoshita et al.	318	313	
	26	4,644,232	2/17/1987	Nojiri et al.	318	66	

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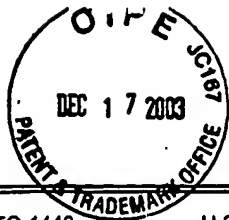


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	27	4,900,944	02/13/1990	Donnelly	290	3	
	28	4,961,151	10/02/1990	Early et al.	364	492	
	29	5,129,328	07/14/1992	Donnelly	105	61.5	
	30	5,212,431	05/18/1993	Origuchi et al.	318	139	
	31	5,264,764	11/23/1993	Kuang	318	139	
	32	5,317,669	05/31/1994	Anderson et al.	388	829	
	33	5,453,672	09/26/1995	Avitan	318	493	
	34	5,317,669	05/31/1994	Anderson et al.	388	829	
	35	5,332,630	07/26/1994	Hsu	429	20	
	36	5,359,228	10/25/1994	Yoshida	290	17	
	37	5,436,548	07/25/1995	Thomas	320	2	
	38	5,453,672	09/26/1995	Avitan	318	493	
Ro	39	5,510,693	04/23/1996	Theobald	320	24	
	40	5,528,148	06/18/1996	Rogers	324	426	
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	43	5,629,567	05/13/1997	Kumar	290	3	
	44	5,629,601	05/13/1997	Feldstein	320	6	
	45	5,631,532	05/20/1997	Azuma et al.	320	5	
	46	5,696,438	12/09/1997	Hamilton	322	12	
	47	5,698,955	12/16/1997	Nii	318	139	
	48	5,751,137	05/12/1998	Kiuchi et al.	322	14	
	49	5,765,656	06/16/1998	Weaver	180	65.3	
	50	5,820,172	10/13/1998	Brigham et al.	290	40	
	51	5,898,282	04/27/1999	Drozdz et al.	318	139	
	52	5,992,950	11/30/1999	Kumar et al.	303	151	
	53	5,939,861	08/17/1999	Joko et al.	320	122	
	54	5,964,309	10/12/1999	Kimura et al.	180	65.8	
	55	5,998,880	12/07/1999	Kumar	290	40	
	56	6,012,011	1/4/2000	Johnson	701	82	

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	57	6,021,251	02/01/2000	Hammer et al.	388	801	
	58	6,023,137	02/08/2000	Kumar et al.	318	254	
	59	6,175,272 B1	01/16/2001	Takita	330	10	
Ro	60	6,308,639 B1	10/30/2001	Donnelly et al.	105	50	
	61	2003/0160586	8/28/03	Donnelly et al.			2/27/2002
	62	10/650,011		Donnelly et al.			8/26/2003

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	63	873,167	03/24/1960	Great Britain	B62d			
	64	1,129,709	11/18/1966	Great Britain	B 60 1	11/00		
Ro	65	1 312 699	10/10/1970	Great Britain	B60L	11/12		
	66	GB 2 005 205 A	09/02/1977	United Kingdom	B60L	11/00		
	67	WO 03/072388	09/4/2003	PCT	B60L	9/02		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	68	Thompson; "Electric Transportation"; <i>International Textbook Co., Scranton, Pa</i> ; 1940, First Edition, pgs. 254-262
	69	Mendler; "The Technological Opportunities of Hybrid Electric Vehicles"; <i>Society of Automotive Engineers, Inc.</i> ; 1996; pgs. 1-16
	70	Mercer; "Innovative Use of Horsepower - Hybrid Bus Powered by Gas Turbine"; <i>Diesel Progress</i> ; December 1997; pgs. 56-57
Ro	71	Berg; "Concept Truck Addresses Future Clean Air Demands With Hybrid Turbine-Electric Powertrain"; <i>Emissions Alternatives Fuels</i> ; (date unknown); pgs. 55-57
	72	FMTV - with HybriDrive Propulsion System, pgs. 1-3
	73	Nene; "Advanced Propulsion Systems for Urban Rail Vehicles: Chapter 2: DC Drives with a Chopper Controller"; <i>Prentice-Hall, Inc.</i> ; 1985; pgs. 18-45

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RO	AA	5,392,716	02/28/95	Orschek et al.	105	61	
	AB	5,661,378	08/26/97	Hapeman	318	52	
	AC	5,735,215	04/07/98	Tegeler	105	34.1	
	AD	6,612,246 B2	09/02/03	Kumar	105	34.2	

## FOREIGN PATENT DOCUMENTS

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							YES	NO

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)


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## FOREIGN PATENT DOCUMENTS

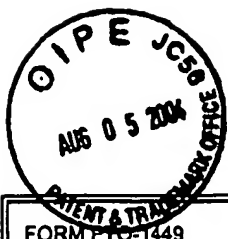
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

Ro	AA	Moghbelli, Hassan et al., "Chopper Design for NICTD Locomotives, Proceedings of the 1993 IEEE/ASME Joint Railroad Conference, April 1993, pp. 67-75.

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iRo	2003/0233959	12/25/03	Kumar	105	26.05	
	2003/0151387	8/14/03	Kumar	320	104	
	2003/0150352	8/14/03	Kumar	105	35	
	4,471,421	9/11/84	Brown et al.	363	54	
	5,589,743	12/31/96	King	318	139	
	5,659,240	8/19/97	King	320	134	
	6,331,365	12/18/01	King	429	9	
	6,591,758	7/15/03	Kumar	105	35	
	6,612,245	9/2/03	Kumar et al.	105	26.05	
	6,737,822	5/18/04	King	318	375	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER Ben Bu Ro	DATE CONSIDERED 12/1/04
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Substitute for form 1448A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Complete if Known</b>	
				Application Number	10/649,286
				Filing Date	August 26, 2003
				First Named Inventor	Frank Wegner Donnelly
				Art Unit	2837
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	5107-3-CIP

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <small>VP (optional)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Ro	1.	US-5,564,795	10-15-1996	Engle	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> , Number <sup>3</sup> , Kind Code <sup>4</sup> (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
Ro	2.	Band, C.E. et al., "Development of and Operational Experience with a High Powered D.C. Chopper for 1500 Volt D.C. Railway Equipment," Institution of Electrical Engineers Conference Publication 53 on Power Thyristors and Their Applications, Part 1 (May 1989), pp. 277-288.

Examiner Signature	Ben Bu Ro	Date Considered	12/1/2004
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